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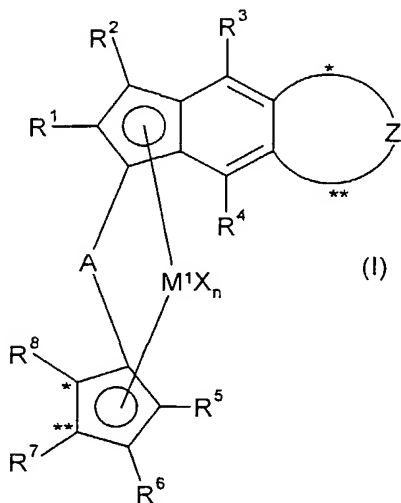
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(54) Title: ORGANOMETALLIC TRANSITION METAL COMPOUND, BISCYCLOPENTADIENYL LIGAND SYSTEM, CAT-  
ALYST SYSTEM AND PREPARATION OF POLYOLEFINS



(57) Abstract: The present invention relates to organometallic transition metal compounds of formula (I) where  $M^1$ , X, n, Z,  $R^1$ - $R^8$  and A are as defined in the claims, biscyclopentadienyl ligand systems having such a substitution pattern, catalyst systems comprising at least one of the organometallic transition metal compounds of the present invention, a process for preparing polyolefins by polymerization or copolymerization of at least one olefin in the presence of one of the catalyst systems of the present invention, the use of the biscyclopentadienyl ligand systems of the present invention for preparing organometallic transition metal compounds and a process for preparing organometallic transition metal compounds using the. biscyclopentadienyl ligand systems.



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